Akira Yamaguchi

List of Publications by Year in descending order

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257450 214800 2,349 78 24 citations h-index papers

g-index 78 78 78 2732 docs citations times ranked citing authors all docs

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#	Article	IF	CITATIONS
1	Solid-State Photophysical Properties of Chiral Perylene Diimide Derivatives: AlEnh-Circularly Polarized Luminescence from Vacuum-Deposited Thin Films. Bulletin of the Chemical Society of Japan, 2022, 95, 751-758.	3.2	3
2	Giant Carbon Nano-Test Tubes as Versatile Imaging Vessels for High-Resolution and In Situ Observation of Proteins. ACS Applied Materials & Samp; Interfaces, 2022, 14, 26507-26516.	8.0	5
3	Structural Characterization of Proteins Adsorbed at Nanoporous Materials. Analytical Sciences, 2021, 37, 49-59.	1.6	4
4	Differential Scanning Calorimetry Study on the Adsorption of Myoglobin at Mesoporous Silicas: Effects of Solution pH and Pore Size. ACS Omega, 2020, 5, 22993-23001.	3.5	6
5	Effect of Cavity Size of Mesoporous Silica on Type 1 Copper Site Geometry in Pseudoazurin. Bulletin of the Chemical Society of Japan, 2020, 93, 630-636.	3.2	4
6	In-situ Neutron Reflectometry Study on Adsorption of Glucose Oxidase at Mesoporous Aluminum Oxide Film. Analytical Sciences, 2020, 36, 1331-1335.	1.6	2
7	Continuous Mesoporous Aluminum Oxide Film with Perpendicularly Oriented Mesopore Channels. ACS Omega, 2019, 4, 17890-17893.	3.5	2
8	Effect of Cavity Size of Mesoporous Silica on Short DNA Duplex Stability. Langmuir, 2018, 34, 5545-5550.	3.5	5
9	Characterization of Myoglobin Adsorption into Mesoporous Silica Pores by Differential Scanning Calorimetry. Analytical Sciences, 2018, 34, 1393-1399.	1.6	9
10	Structural Characterization of Myoglobin Molecules Adsorbed within Mesoporous Silicas. Journal of Physical Chemistry C, 2018, 122, 15567-15574.	3.1	13
11	High-performance bioelectrocatalysts created by immobilization of an enzyme into carbon-coated composite membranes with nano-tailored structures. Journal of Materials Chemistry A, 2017, 5, 20244-20251.	10.3	15
12	Probing structure–function relationships in early events in photosynthesis using a chimeric photocomplex. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10906-10911.	7.1	22
13	Nanoporous Waveguide Spectroscopy for the Estimation of Enzyme Adsorption on Mesoporous Silica. Analytical Sciences, 2017, 33, 473-476.	1.6	10
14	Thermodynamics of Complexation between Thiourea-based Receptor and Acetate in Water/Acetonitrile Mixture. Analytical Sciences, 2016, 32, 741-744.	1.6	1
15	Stability of Hairpin Structure of (CCG) < sub > 4 < /sub > Trinucleotide Repeats inside Amine-functionalized Silica Mesopores. Chemistry Letters, 2016, 45, 1425-1427.	1.3	2
16	Collimated microfiber spectroscopy for optical characterization of disordered porous anodic alumina. Applied Physics Express, 2016, 9, 022503.	2.4	2
17	High-Performance Bio-Sensor with Enzymes Immobilized on Mesoporous Membranes: Nanosized Pores Just Corresponding to the Size of an Enzyme Improve the Stability of the Sensor Drastically. Advanced Porous Materials, 2016, 4, 157-165.	0.3	6
18	Structural Stability of Light-harvesting Protein LH2 Adsorbed on Mesoporous Silica Supports. Analytical Sciences, 2015, 31, 1069-1074.	1.6	8

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19	Highly sensitive real-time detection of DNA hybridization by using nanoporous waveguide fluorescence spectroscopy. Applied Physics Letters, 2014, 105, .	3.3	10
20	Trinucleotide duplex formation inside a confined nanospace under supercooled conditions. Nature Communications, 2014, 5, 5151.	12.8	10
21	Electrochemical enzymatic biosensor with long-term stability using hybrid mesoporous membrane. Analyst, The, 2014, 139, 4654-4660.	3.5	25
22	Alumina Plate Containing Photosystem I Reaction Center Complex Oriented inside Plate-Penetrating Silica Nanopores. Journal of Physical Chemistry B, 2013, 117, 9785-9792.	2.6	7
23	Inclusion Complexation of γ-Cyclodextrin and Coumarin Dye inside Alumina Nanopores over a Temperature Range of 303–233 K. Journal of Physical Chemistry C, 2013, 117, 17567-17573.	3.1	3
24	Encapsulation of PEG-modified Myoglobin in Hydrophobic Mesoporous Silica as Studied by Optical Waveguide Spectroscopy. Analytical Sciences, 2013, 29, 187-192.	1.6	4
25	Structural Regulation of Mesoporous Silica and Characterization of the Microenvironment Inside a Silica Mesopore. Bunseki Kagaku, 2013, 62, 581-588.	0.2	1
26	Enhanced fluorescence in a nanoporous waveguide and its quantitative analysis. Optics Express, 2012, 20, 12850.	3.4	16
27	Microviscosity of Supercooled Water Confined within Aminopropyl-modified Mesoporous Silica as Studied by Time-resolved Fluorescence Spectroscopy. Analytical Sciences, 2012, 28, 1065-1070.	1.6	15
28	Nanoporous Waveguide Sensor with Optimized Nanoarchitectures for Highly Sensitive Label-Free Biosensing. ACS Nano, 2012, 6, 1541-1547.	14.6	108
29	Deposition of Polyelectrolyte Multilayer Film on a Nanoporous Alumina Membrane for Stable Label-Free Optical Biosensing. Journal of Physical Chemistry C, 2012, 116, 23533-23539.	3.1	24
30	Acidâ^'Base Equilibria inside Amine-Functionalized Mesoporous Silica. Analytical Chemistry, 2011, 83, 2939-2946.	6.5	46
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32	Adsorption and Desorption Dynamics of Sodium Dodecyl Sulfate at the Octadecylsilane Layer on the Pore Surface of a Mesoporous Silica Film Observed in-situ by Optical Waveguide Spectroscopy. Analytical Sciences, 2011, 27, 597-603.	1.6	11
33	Functionalization of mesoporous silica membrane with a Schiff base fluorophore for Cu(II) ion sensing. Analytica Chimica Acta, 2011, 696, 94-100.	5.4	41
34	Grafting of phenylboronic acid on a glassy carbon electrode and its application as a reagentless glucose sensor. Journal of Electroanalytical Chemistry, 2011, 656, 192-197.	3.8	24
35	Mesoporous silica hybrid membranes for precise size-exclusive separation of silver nanoparticles. Journal of Colloid and Interface Science, 2011, 355, 348-358.	9.4	31
36	Transparent nanoporous tin-oxide film electrode fabricated by anodization. Thin Solid Films, 2011, 519, 2415-2420.	1.8	24

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37	Mesoporous Materials toward Nanofabricator and Nanoreactor. Electrochemistry, 2010, 78, 105-113.	1.4	6
38	Properties of A Metal Clad Waveguide Sensor Based on A Nanoporous-Metal-Oxide/Metal Multilayer Film. Analytical Chemistry, 2010, 82, 6066-6073.	6.5	36
39	Organic–inorganic mesoporous silica nanostrands for ultrafine filtration of spherical nanoparticles. Chemical Communications, 2010, 46, 3917.	4.1	62
40	Encapsulation of catalase into nanochannels of an inorganic composite membrane. Journal of Molecular Catalysis B: Enzymatic, 2009, 57, 183-187.	1.8	30
41	Optical Waveguide Sensor Based on a Porous Anodic Alumina/Aluminum Multilayer Film. Analytical Chemistry, 2009, 81, 105-111.	6.5	68
42	Separation of adenine, adenosine-5′-monophosphate and adenosine-5′-triphosphate by fluidic chip with nanometre-order diameter columns inside porous anodic alumina using an aqueous mobile phase. Lab on A Chip, 2009, 9, 1337.	6.0	7
43	Characterization of the Inner Space of Mesostructured Silica by Time-Resolved Fluorescence Spectroscopy. Bunseki Kagaku, 2009, 58, 507-516.	0.2	0
44	Electrochemical synthesis of Au/polyaniline–poly(4-styrenesulfonate) hybrid nanoarray for sensitive biosensor design. Electrochemistry Communications, 2008, 10, 1090-1093.	4.7	22
45	Integration of mesostructured silica with bathophenanthroline into a porous alumina membrane by one-pot synthesis method. Microporous and Mesoporous Materials, 2008, 113, 139-145.	4.4	2
46	Enzyme catalytic membrane based on a hybrid mesoporous membrane. Chemical Communications, 2008, , 853-855.	4.1	28
47	Diffusion of Metal Complexes Inside of Silicaâ^'Surfactant Nanochannels within a Porous Alumina Membrane. Journal of Physical Chemistry B, 2008, 112, 2024-2030.	2.6	28
48	Solvation Dynamics of Coumarin 153 in Alcohols Confined in Silica Nanochannels. Journal of Physical Chemistry A, 2008, 112, 11535-11542.	2.5	30
49	Fabrication and Analytical Applications of Hybrid Mesoporous Membranes. Analytical Sciences, 2008, 24, 25-30.	1.6	27
50	Utilization of Nanometre-order Diameter Columns inside Porous Anodic Alumina for Chromatography Chip System. Chemistry Letters, 2008, 37, 18-19.	1.3	3
51	Use of porous anodic alumina membranes as a nanometre-diameter column for high performance liquid chromatography. Chemical Communications, 2007, , 1160 .	4.1	12
52	Local Environments of Coumarin Dyes within Mesostructured Silicaâ^'Surfactant Nanocomposites. Journal of Physical Chemistry B, 2006, 110, 3910-3916.	2.6	37
53	Permeation Flux of Organic Molecules through Silica-surfactant Nanochannels in a Porous Alumina Membrane. Analytical Sciences, 2006, 22, 1495-1500.	1.6	16
54	Diffusivities of Tris(2,2'-bipyridyl)ruthenium inside Silica-Nanochannels Modified with Alkylsilanes. Analytical Sciences, 2006, 22, 1501-1507.	1.6	25

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55	Template Synthesis of Arrays of One-dimensional Gold Nanowires Standing on a Carbon Film. Chemistry Letters, 2006, 35, 1352-1353.	1.3	22
56	Analysis of Associated Structures of Rhodamine B Adsorbed at Interfaces by Second Harmonic Generation Spectroscopy. Bunseki Kagaku, 2006, 55, 457-465.	0.2	1
57	Extraction mechanisms of charged organic dye molecules into silica-surfactant nanochannels in a porous alumina membrane. Analytica Chimica Acta, 2006, 556, 157-163.	5.4	21
58	Longitudinal diffusion behavior of hemicyanine dyes across phospholipid vesicle membranes as studied by second-harmonic generation and fluorescence spectroscopies. Analytical and Bioanalytical Chemistry, 2006, 386, 627-632.	3.7	32
59	Solvation Dynamics at the Water/Mica Interface as Studied by Time-resolved Fluorescence Spectroscopy. Chemistry Letters, 2005, 34, 988-989.	1.3	12
60	High Sensitivity and Large Dynamic Range Surface Plasmon Resonance Sensing for DNA Hybridization Using Au-Nanoparticle-Attached Probe DNA. Japanese Journal of Applied Physics, 2005, 44, L1544-L1546.	1.5	17
61	Molecular Recognition of Ions at Liquid/Liquid Interfaces. , 2005, , 233-248.		1
62	Construction of DNA-Au Nanoparticles Multilayer and Its Application to Detection of DNA Hybridization. Japanese Journal of Applied Physics, 2004, 43, 2767-2770.	1.5	5
63	Self-assembly of a silica–surfactant nanocomposite in a porous alumina membrane. Nature Materials, 2004, 3, 337-341.	27.5	441
64	Electrochemical modification of benzo-15-crown-5 ether on a glassy carbon electrode for alkali metal cation recognition. Journal of Electroanalytical Chemistry, 2004, 563, 249-255.	3.8	66
65	Adsorption Behavior of Lauric Acid at Heptane/Water Interface as Studied by Second Harmonic Generation Spectroscopy and Interfacial Tensiometry. Analytical Sciences, 2004, 20, 1523-1527.	1.6	2
66	Anion Recognition at the Solid/Liquid Interface as Studied by Second Harmonic Generation Spectroscopy. Chemistry Letters, 2003, 32, 798-799.	1.3	8
67	Molecular Recognition at Solid/Liquid and Liquid/Liquid Interfaces As Studied by Second Harmonic Generation Spectroscopy. Hyomen Kagaku, 2003, 24, 280-287.	0.0	0
68	Flexural Rigidity of a Single Microtubule. Japanese Journal of Applied Physics, 2002, 41, 3015-3019.	1.5	69
69	Enhancement of Surface Plasmon Resonance Sensing for DNA Hybridization Using Colloidal Au Attached Probe DNA. Chemistry Letters, 2002, 31, 190-191.	1.3	19
70	Direct Observation of Alkali Metal Ion Recognition Processes at the Heptane/Water Interface by Second Harmonic Generation Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 9906-9911.	2.6	31
71	A heater-integrated transparent microchannel chip for continuous-flow PCR. Sensors and Actuators B: Chemical, 2002, 84, 283-289.	7.8	179
72	Rapid fabrication of electrochemical enzyme sensor chip using polydimethylsiloxane microfluidic channel. Analytica Chimica Acta, 2002, 468, 143-152.	5.4	39

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7 3	Glucose Sensing Based on Interdigitated Array Microelectrode. Analytical Sciences, 2001, 17, 841-846.	1.6	28
74	Photo-electrochemical Deposition of Platinum on TiO2with Resolution of Twenty Nanometers using a Mask Elaborated with Electron-Beam Lithography. Japanese Journal of Applied Physics, 2001, 40, 4246-4251.	1.5	12
75	Reversible phase transitions in polymer gels induced by radiation forces. Nature, 2000, 408, 178-181.	27.8	321
76	Observation of Molecular Association at Liquid/Liquid and Solid/Liquid Interfaces by Second Harmonic Generation Spectroscopy. Journal of Physical Chemistry B, 2000, 104, 12091-12094.	2.6	52
77	Separation, Detection, and Functional Materials. Characterization of molecules and molecular recognition at interfaces Bunseki Kagaku, 1999, 48, 1063-1075.	0.2	1
78	Resonant Second Harmonic Spectroscopy of Rhodamine B Adsorbed onto Fused Silica Analytical Sciences, 1997, 13, 85-88.	1.6	12